AMENDMENTS TO THE SPECIFICATION:

Please replace the second paragraph on page 4, line 13 with the following amended paragraph:

According to ~~Claim 1~~ one embodiment of the present invention, there is provided a signal transmission system for transmitting a video signal, comprising: a signal transmission unit including; a decoder which receives digital broadcasting and outputs a luminance signal and two color difference signals, and an encoding circuit which encodes the luminance signal and the respective color difference signals into signal forms suited to a transmission path, and transmits the encoded signals; and a signal reception unit including; a decoding circuit which receives the encoded luminance signal and respective color difference signals, and decodes these signals, a luminance signal processing circuit which processes the decoded luminance signal, a color difference signal processing circuit which processes the respective decoded color difference signals, and a signal conversion circuit which converts the luminance signal outputted from the luminance signal processing circuit and the respective color difference signals outputted from the color difference signal processing circuit into RGB signals.

Please replace the second paragraph beginning on page 5, line 9 with the following amended paragraph:

According to ~~Claim 2~~ a second embodiment of the present invention, there is provided a signal transmission system for transmitting a video signal through a transmission path, comprising: a signal transmission unit including; a decoder which receives digital broadcasting and outputs a luminance signal and two color difference signals, a time division multiplexing circuit which sub-samples the two color difference signals to signals with half pixel rates, subjects the signals to time division multiplexing, and outputs a multiplexed signal, and an encoding circuit which encodes the luminance signal and the multiplexed signal into signal forms suited to a transmission path, and transmits the encoded signals; and a signal reception unit including; a decoding circuit which receives the encoded luminance signal and multiplexed signal, and decodes these signals, a demultiplexing circuit

which demultiplexes the decoded multiplexed signal into the original two color difference signals, a luminance signal processing circuit which processes the decoded luminance signal, a color difference signal processing circuit which processes the respective color difference signals demultiplexed, and a signal conversion circuit which converts the luminance signal outputted from the luminance signal processing circuit and the respective color difference signals outputted from the color difference signal processing circuit into RGB signals.

Please replace the second paragraph beginning on page 6, line 14 with the following amended paragraph:

According to ~~Claim 3~~ a third embodiment of the present invention, there is provided a signal transmission system for transmitting a video signal and an audio signal, comprising: a signal transmission unit including; an MPEG decoder which receives digital broadcasting and outputs the video/audio signal, an output interface which outputs the video/sound signal that has been outputted from the MPEG decoder, an I2C controller which outputs an I2C (Inter IC control) signal, a CPU which controls the whole unit, and a program ROM which stores an operation program of the CPU; and a signal reception unit including; an input interface which receives the video/audio signal from the signal transmission unit, a device interface which converts the video/audio signal into a video image and a sound, a video/audio output device which outputs the video image and the sound outputted from the device interface, to the outside, and an I2C controller which has a ROM table in which information relating to performance of the signal reception unit is stored, receives an I2C signal from the signal transmission unit, and outputs the information stored in the ROM table to the signal transmission unit according to a request from the signal transmission unit.

Please replace the second paragraph beginning on page 7, line 18 with the following amended paragraph:

According to ~~Claim 4~~ a fourth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores

information relating to resolution of a video image that can be outputted from the video/audio output device.

Please replace the first paragraph beginning on page 8, line 2 with the following amended paragraph:

According to ~~Claim 5~~ a fifth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores information relating to the number of channels of audio that can be outputted from the video/audio output device.

Please replace the third paragraph beginning on page 8, line 11 with the following amended paragraph:

According to ~~Claim 6~~ a sixth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores information relating to a signal conversion method for converting the luminance signal and color difference signals into RGB signals.

Please replace the fifth paragraph beginning on page 8, line 21 with the following amended paragraph:

According to ~~Claim 7~~ a seventh embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores information relating to gamma control of the video signal.

Please replace the first paragraph beginning on page 9, line 4 with the following amended paragraph:

According to ~~Claim 8~~ an eighth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores information relating to whether or not the signal reception unit has a mode in which a video image is not subjected to enhancement processing.

Please replace the third paragraph beginning on page 9, line 14 with the following amended paragraph:

According to ~~Claim 9~~ a ninth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the ROM table stores information relating to a maker code and a device code of the signal reception unit.

Please replace the fifth paragraph beginning on page 9, line 25 with the following amended paragraph:

According to ~~Claim 10~~ a tenth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the signal reception unit outputs the kind of aspect conversion processing that is currently performed to output a video image, to the signal transmission unit through the I2C controller.

Please replace the second paragraph beginning on page 10, line 8 with the following amended paragraph:

According to ~~Claim 11~~ an eleventh embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 3, the signal transmission unit includes a selector which multiplexes control information in a vertical retrace period of the video signal and outputs it, said control information indicating whether a video frame signal, that is currently outputted from the MPEG decoder separately from the video/audio signal, is generated by being repeatedly outputted in the MPEG decoder or not; and the signal reception unit includes a control information separation unit which separates the control information from the video signal, and a picture quality control unit which subjects the video signal to an adaptive signal processing according to the control information, and outputs the video signal to the device interface.

Please replace the fourth paragraph beginning on page 10, line 25 with the following amended paragraph:

According to ~~Claim 12~~ a twelfth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 11, the control information is information indicating a picture encoding method based on the MPEG standard, by which I, P, and B pictures can be discriminated from each other.

Please replace the second paragraph beginning on page 11, line 8 with the following amended paragraph:

According to ~~Claim 13~~ a thirteenth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 11, the control information is compression ratio information based on the MPEG standard.

Please replace the fourth paragraph beginning on page 11, line 15 with the following amended paragraph:

According to ~~Claim 14~~ a fourteenth embodiment of the present invention, in the signal transmission system as defined in ~~Claim~~ embodiment 11, the control information is information indicating whether a material before being MPEG-encoded is picked up by progressive scanning or interlaced scanning.